PANORAMAdtv
DIGITAL VIDEO SOLUTIONS

MON8-1/SDI

1U 8-Channel SDI Digital Multi-Display Video Monitor

(Document P/N **821626**, Rev-**A**)

with Eight Backlit 1.8" LCD Displays, Eight SDI Video Inputs, Eight SDI Re-Clocked Outputs, and Eight CVBS (Analog) Outputs (Converted From SDI Inputs)

User Manual

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Important Safety Instructions

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8) Do not install near any heat source such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched, particularly at plugs convenience receptacles and the point where they exit from the apparatus.
11) Only use attachments/accessories specified by the manufacturer.
12) Use only with the cart stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15) Do not expose this apparatus to rain or moisture.
16) The apparatus shall be connected to a mains socket outlet with a protective earthing connection.

CAUTION!

In products featuring an audio amplifier and speakers, the surface at the side of the unit, where the audio amplifier heat sink is internally attached, may get very hot after extended operation. When operating the unit excercise caution when touching this surface and ensure that external materials which may be adversely affected by heat are not in contact with it. There is a Hot Surface label (see diagram) attached to the aforementioned surface of the product.

Introduction

Congratulations on your selection of a PANORAMAdtv product. We are confident it represents the best performance and value available, and we guarantee your satisfaction with it.

If you have questions or comments you may contact us at:

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Section 1

General Features and Specifications

Overview

Features

Applications

Specifications

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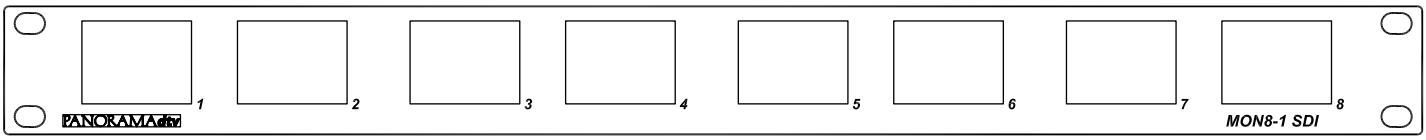
1U 8-Channel Multi-Display SDI Video Monitor



MON8-1/SDI Front Panel

Overview

The **MON8-1/SDI** is an 8-channel video monitor featuring eight backlit 1.8" LCD displays with eight **SDI** video inputs, eight re-clocked outputs, and eight **analog** (**CVBS**) outputs (converted from the **SDI** inputs) all on BNC connectors. The eight inputs can be simultaneously viewed on the eight video monitors on the front panel. The **MON8-1/SDI** unit automatically senses NTSC or PAL video formats and configures itself accordingly.

The unit is very light (3.5 lbs.) and features an internal power supply with extremely low power requirements.

Features

- Eight 1.8" LED backlit LCD video displays
- Autosensing of NTSC and PAL video formats
- Eight SDI video inputs and re-clocked outputs on BNC connectors
- Eight analog outputs (from SDI in) on BNC connectors
- Only 1U rack space
- Light weight
- Low power requirements

Applications

The **MON8-1/SDI** is ideally suited for monitoring of multiple video feeds in VTR bays, mobile production vehicles, news and transmission control rooms, and duplication and post production applications. Designed and manufactured in the U.S., the **MON8-1/SDI** is backed by a strong warranty and a satisfaction guaranteed return policy.

Specifications

Rack Space:	1U
SDI Video Inputs:	8 x BNC
SDI Re-Clocked Outputs:	8 x BNC
CVBS Outputs (from SDI In):	8 x BNC
DC Power Consumption:	30 Watts
AC Mains Input:	100-240VAC, 50-60Hz
Weight:	3.5 lbs. (1.5876 kg)
Dimensions (HxWxD):	1.842 x 19 x 7 inches (46.78 x 482.6 x 177.8 mm)

Features and specifications subject to improvement without notice.

Screen Type/Qty:	LCD, active matrix TFT x 8
Panel Illumination:	LED Backlight
Screen Size (dim.):	1.8" diagonal
Resolution (dot):	280 (Hor.) x 220 (Vert.)
Dot Pitch (mm):	0.127 (Hor.) x 0.121 (Vert.)
LCD Active Area (mm):	138.2 x 103.4
Color Configuration:	RGB Delta
Contast Ratio:	150 (typical)
Brightness (cd/m^2)**:**	180 NITs
Surface Treatment:	Anti-glare (typical 6% haze)
Viewing Angle:	Top = 10˚ Bottom = 30˚ Left = 45˚ Right = 45˚
Video Signal:	NTSC 525/60 or PAL 625/50
Color Temperature (k):	7000
Display Controls:	Fixed, Factory Preset

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Section 2

Operation

Front and Rear Panel Features

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Front Panel Features

Please refer to **Figure-2a** on the following page to familiarize yourself with the front panel features of the **MON8-1/SDI** unit. The following sections describe these functions and are referenced, by *number*, to **Figure-2a**.

1 Video Displays (1-8)

View input video sources through these eight 1.8" diagonal LED backlit LCD displays. Screen image parameters are factory preset for optimum performance. The numbers shown at the lower right of each display (**1-8**) correspond to the numbers of the associated input sections on the rear panel.

Rear Panel Features

Please refer to **Figure-2a** on the following page to familiarize yourself with the rear panel features of a **MON8-1/SDI** unit. The following sections describe these features and are referenced, by *letter*, to **Figure-2a**.

A Power Connector

Attach a standard **IEC-320** power cord between this connector and mains power.

B CVBS Output (Converted From SDI Input)

These female BNC connectors output **CVBS** (**analog**) video signals as *converted* from the **SDI Input Connector** (**Item D**).

C SDI Re-Clocked Output Connector

This female BNC onnector supplies a re-clocked replica of the video signals entering the **SDI Input Connector** (**Item D**).

D SDI Input Connector

This female BNC connector accepts **SDI** video signals and is terminated at 75Ω.

E SDI Lock Indication LED (GREEN)

When a valid (and locked) **SDI** video signal is received at the **SDI Input Connector** (**Item D**) this LED lights GREEN.

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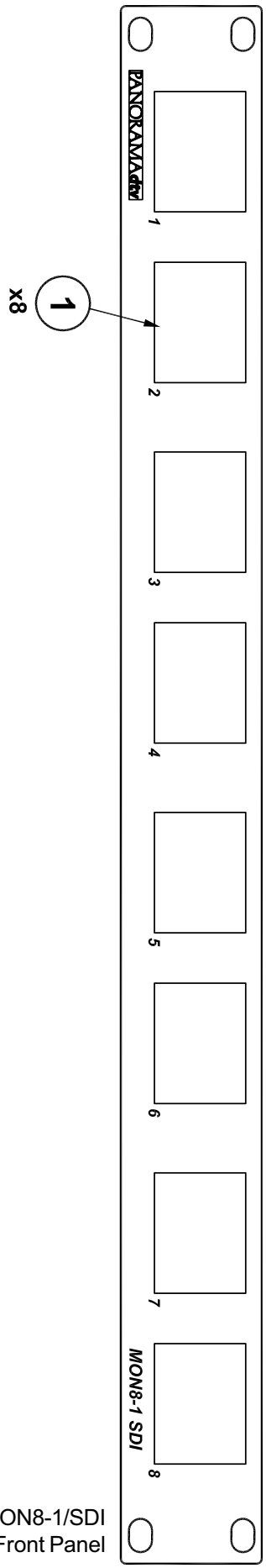
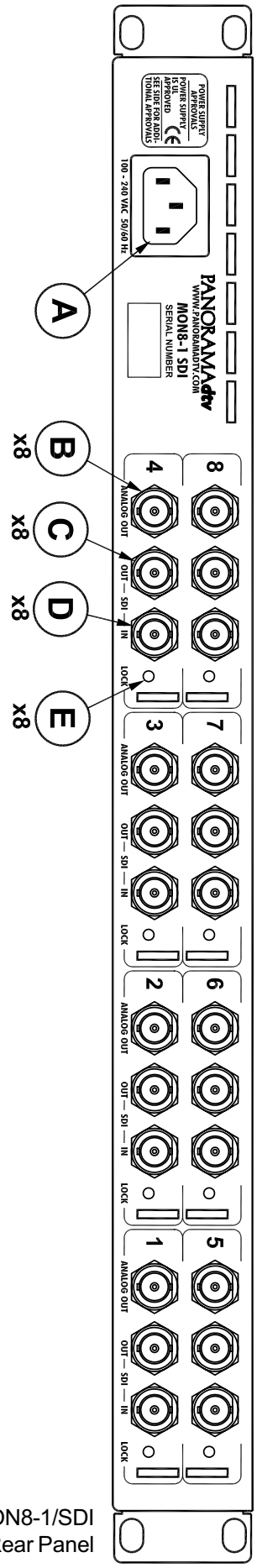


MON8-1/SDI
Front Panel



MON8-1/SDI
Rear Panel

Figure-2a: Front and Rear Panel Features

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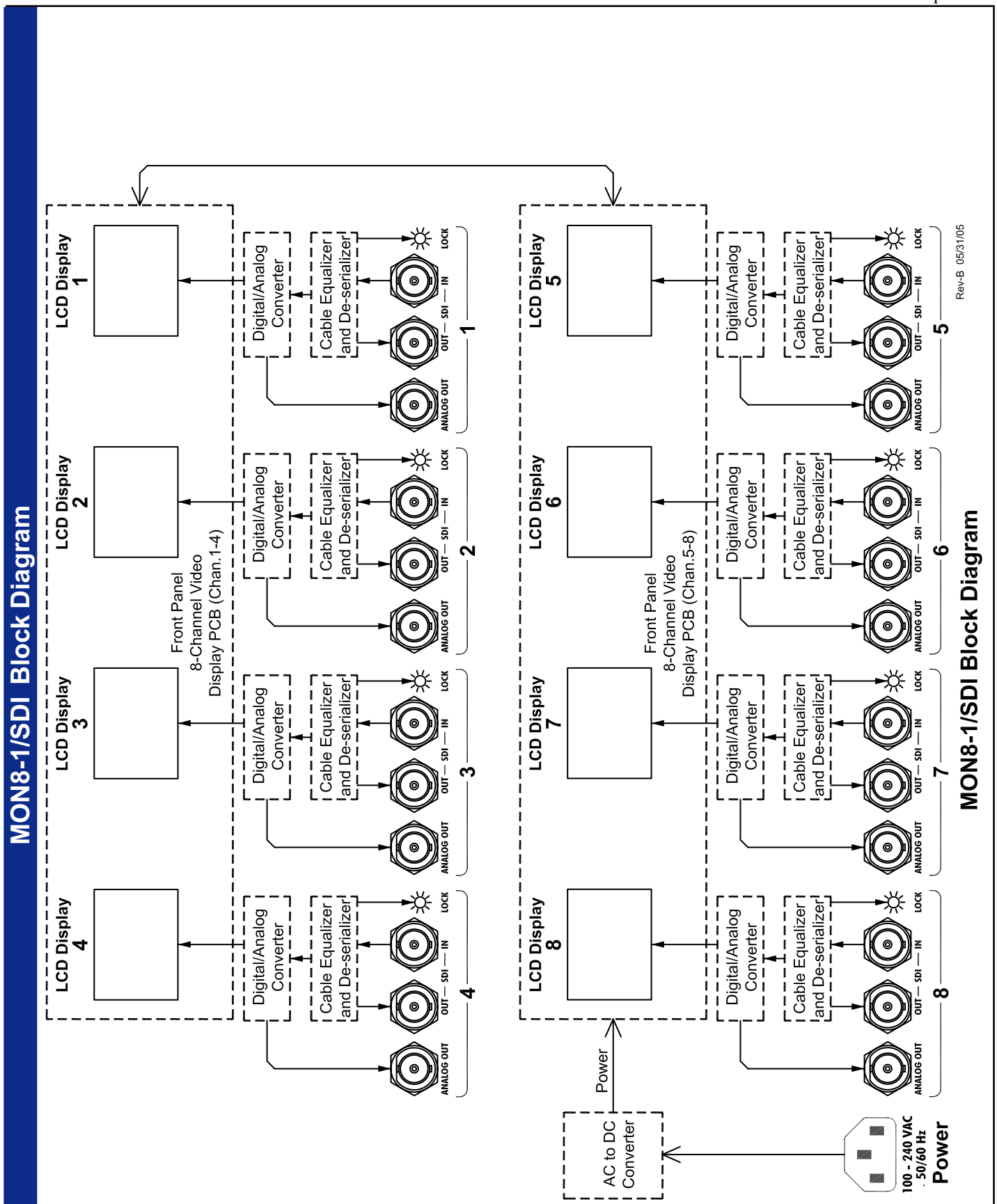

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NOTE:

PCB layout and schematic support documentation is available upon request.

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